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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/667,586	09/22/2003	Palanisamy Arjunan	2002B170	9631
	7590 01/16/200 L CHEMICAL COMP	EXAMINER		
5200 BAYWAY DRIVE			RABAGO, ROBERTO	
P.O. BOX 2149 BAYTOWN, TX 77522-2149			ART UNIT	PAPER NUMBER
			1713	
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONTHS		01/16/2007	. PAPER	

# Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  Extentions of them may be wishable under the provisions of 37 CFR 1.136(i). In no event, however, may a reply be timely filed  If NO period for reply is specified above, the maturism statisticine period will apply and will expire SIX (8) MONTHS from the mailing date of the communication.  Failure for reply within the set or celembed period for reply will, by statisc, cause the application becomes ABANDED (38 u.S. C. § 133). Any reply received by the Critical start than times months after the mailing date of this communication, even if timely filed, may reduce any extented place them adjustment. Set 37 CFR 1.704(b).  Status  1) Responsive to communication(s) filed on 25 October 2006.  2a) This action is FINAL.  2b) This action is non-final.  3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) Claim(s) 1.1.1.12 and 1.1.44 is/are pending in the application.  4a) Of the above claim(s) 30-41 is/are withdrawn from consideration.  5) Claim(s) 44 is/are allowed.  6) Claim(s) 1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.					)			
Examiner   Roberto Rábago   1713			Application No.	Applicant(s)				
Roberto Rábago   1713	Office Action Summary		10/667,586	ARJUNAN ET AL.				
- The MALING DATE of this communication appears on the cover sheet with the correspondence address — Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  Examinate of unit may be availated under the proteins of 3° CPR 1.138(a) in or event, nower, may apply be timely fixed in the proteins of the proteins of 3° CPR 1.138(a) in or event, nower, may apply be timely fixed in the period for reply is specified above, the maximum stabilatory period will apply and will apple six (8) MONTHS from the making date of this communication. Failure to imply which the store detended period for reply is specified above, the making date of this communication, and the period for reply is specified above, the making date of this communication, which is specified above, the maximum stabilatory period will apply and will apple say 10 (3) MONTHS from the making date of this communication. Failure to imply which were detended period for reply is specified.  **Status**  **This action is FINAL.**  **This action is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  **Disposition of Claims**  **This action is FINAL.**  **This action is FINAL.**  **This action is FINAL.**  **This action is action is action is action and for including in the application.**  **Application of Claims**  **This action is action is action and for election requirement.**  **Application Papers**  **This action is action is action and for election requirement.**  **Application Papers**  **The drawing(s) filed on			Examiner	Art Unit				
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WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMINICATION.  Extensions of time may be waited under the provision of 37 CPR 1.13(6). In no veren, however, may a reply be timely filed after 13K (6) MOSTHS from the mailing date of this communication.  Failure to recy which this said or exceeded period for recy will be planted. Six (6) MOSTHS from the mailing date of this communication.  Failure to recy which this said or exceeded period for review will be planted. Six (6) MOSTHS from the mailing date of this communication, even if timely filed, may reduce any seried plante time adjustment. Sea 37 CPR 1.74(b).  Status  1) □ Responsive to communication(s) filed on 25 October 2006.  2a) □ This action is FINAL.  2b) □ This action is non-final.  3) □ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) □ Claim(s) 1.9.1.1.2 and 1.4-44 is/are pending in the application.  4a) Of the above claim(s) 30-41 is/are withdrawn from consideration.  5) □ Claim(s) 44 is/are allowed.  6) □ Claim(s) 1.9.1.1.1.2 and 4.3 is/are rejected.  7) □ Claim(s) 4.1 is/are objected to by the Examiner.  9) □ The specification is objected to by the Examiner.  10) □ The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. Sea 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. Sea 37 CFR 1.121(d).  11) □ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12) □ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) □ Certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Nutl. 17.2(a)).	The MAILI Period for Reply	NG DATE of this communication	n appears on the cover sheet w	ith the correspondence address				
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Priority under 35 U.S.C. § 119  12)	Replacemen	t drawing sheet(s) including the co	prrection is required if the drawing	(s) is objected to. See 37 CFR 1.121(d	I).			
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1	11)∏ The oath or	declaration is objected to by th	e Examiner. Note the attache	d Office Action or form PTO-152.				
a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  Attachment(s)  Attachment(s)  Attachment(s)  Attachment(s)  Notice of References Cited (PTO-892)  Notice of Draftsperson's Patent Drawing Review (PTO-948)  Information Disclosure Statement(s) (PTO/SB/08)  Notice of Informal Patent Application	Priority under 35 U.S	S.C. § 119						
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#### **DETAILED ACTION**

#### Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114, Applicant's submission filed on 10/25/2006 has been entered.

#### Priority

2. Applicants' priority claim to provisional application 60/412,541 is objected to because it does not meet the criteria for priority. 35 USC 119(e)(1) states in part (emphasis added):

An application for patent filed under section 111(a) or section 363 of this title for an invention disclosed in the manner provided by the first paragraph of section 112 of this title in a provisional application filed under section 111(b) of this title, by an inventor or inventors named in the provisional application, shall have the same effect, as to such invention, as though filed on the date of the provisional application filed under section 111(b) of this title, if the application for patent filed under section 111(a) or section 363 of this title is filed not later than 12 months after the date on which the provisional application was filed and if it contains or is amended to contain a specific reference to the provisional application.

The instant application may not claim priority to 60/412,541 because this application has no inventors in common with those of the provisional application.

## Specification

3. The specification is objected to because it includes an incorrect priority claim (see item 2 above).

### Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- 5. Claims 1-8, 11, 12, 15, 17, 18, 20, 26, 29, 42 and 43 are rejected under 35 U.S.C. 102(a) as being anticipated by Walther et al. (4<sup>th</sup> Int. Symp. on High pressure Process Tech. And Chem. Eng.).

The reference discloses supercritical polymerization of propylene using dimethylsilyl-bis-(2-methyl-4-phenylindenyl)zirconium dichloride and MAO, resulting in polymer of the required melting temperature (see 1.1, 1.2, 2., 2.1-2.4), including all limitations except for a reporting of the catalyst activity and branching index; however, these properties appear to be inherent in view of the fact that the identical metallocene has been used under substantially the same process conditions as those of applicants' examples. The burden of proof is shifted to applicant to show that the reference examples would not have the required activity or branching.

#### Claim Rejections - 35 USC § 103

6. Claims 1-4, 6-9, 11, 12, 14-29 and 42 are rejected under 35 U.S.C. 103(a) as being unpatentable over Brant et al. (US 2004/0127654).

The reference discloses polymerization under supercritical conditions ([0002], [0070]), the use of 2,4-substituted bisindenyl metallocene [0134]-[0712], high productivity [0871], activators and supports ([0773]-[0852]), solvent [0049], comonomer ([0897]-[0898]), various reactor modes [0854]-[0865], two phase system [0059] and wherein the resulting polypropylene product has a melting point of greater than 145°C and a branching index of 0.97 or less [0018], and recommended polymerization temperatures which would be less than the polymer melting point [0068]. Although the reference has not assembled all of the required features into a single embodiment, one of ordinary skill in the art would be motivated to do so because each of the claimed method and polymer requirements represent preferred features of the reference method.

## Double Patenting

5. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422

F.2d 438, 164 USPQ 619 (CCPA 1970); and In re Thorington, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

6. Claims 1-4, 7-9, 11, 12, 14-23, 26-29 and 42-43 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 20-304 of copending application No. 10/667 585. Although the conflicting claims are not identical, they are not patentably distinct from each other because, although the two sets of claims are of somewhat different scope, a substantially overlapping set of methods is being claimed. It is noted that the copending claims do not specify the catalyst activity, melting point or branching index; however, the required features would inherently result merely by following the methods set forth in the copending claims, because each of these features are stated to be features of the described invention (see [0018] and [0871]).

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

7. Claims 1-4, 7-9, 11, 12, 14-23, 26-29 and 42-43 are directed to an invention not patentably distinct from claims of commonly assigned 10/667,585, for the reasons set forth above.

The U.S. Patent and Trademark Office normally will not institute an interference between applications or a patent and an application of common ownership (see MPEP Chapter 2300). Commonly assigned 10/667,585, discussed above, would form the basis for a rejection of the noted claims under 35 U.S.C. 103(a) if the commonly assigned case qualifies as prior art under 35 U.S.C. 102(e), (f) or (g) and the conflicting inventions were not commonly owned at the time the invention in this application was made. In order for the examiner to resolve this issue, the assignee can, under 35 U.S.C. 103(c) and 37 CFR 1.78(c), either show that the conflicting inventions were commonly owned at the time the invention in this application was made, or name the prior inventor of the conflicting subject matter.

A showing that the inventions were commonly owned at the time the invention in this application was made will preclude a rejection under 35 U.S.C. 103(a) based upon the commonly assigned case as a reference under 35 U.S.C. 102(f) or (g), or 35 U.S.C. 102(e) for applications pending on or after December 10, 2004.

8. US application 11/433,889, published as US 2006/0211832, is stated to be a continuation of 10/667,585; however, the instant claims are not rejected over 11/433,889 under provisional obviousness-type double patenting because the copending application shares no common inventors with the instant application, and has no recorded assignment. Any changes to either the assignment or inventorship may prompt a new rejection over the claims of 11/433,889.

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9. Claim 44 is allowed.

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Roberto Rábago whose telephone number is (571) 272-

1109. The examiner can normally be reached on Monday - Friday from 8:00 - 4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Wu can be reached on (571) 272-1114. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Primary Examiner

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January 5, 2007